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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/083,054	02/26/2002	Kevin J. Schulz	S01.12-0829/STL 10301	4383	
75	590 07/10/2002				
Theodore M. Magee WESTMAN CHAMPLIN & KELLY International Centre - Suite 1600			EXAMINER		
			KLIMOWICZ, WILLIAM JOSEPH		
900 South Second Avenue Minneapolis, MN 55402-3319			ART UNIT	PAPER NUMBER	
			2652		
			DATE MAILED: 07/10/2002	DATE MAILED: 07/10/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

S Patent and '	/. 04-01)		
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P nation Disclosure Statement(s) (PTO-1449) P	7TO-948) 5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)
Attachment	•		
	acknowledgment is made of a claim t		
	☐ The translation of the foreign lar		
		•	. § 119(e) (to a provisional application).
* 5	application from the Interr ee the attached detailed Office action	national Bureau (PCT Rule 17.2(a)).	•
	3. Copies of the certified copies	of the priority documents have beer	received in this National Stage
		documents have been received in A	Application No
	<u> </u>	documents have been received.	
	☐ All b)☐ Some * c)☐ None of:		
	Acknowledgment is made of a claim	for foreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).
Priority u	nder 35 U.S.C. §§ 119 and 120		
12) 🔲 ⁻	Γhe oath or declaration is objected to	•	
٠,٠	If approved, corrected drawings are re		disapproved by the Examiner.
11) 🗆 -	The proposed drawing correction file		· ·
10)[2]		iection to the drawing(s) be held in abey	· •
	The drawing(s) filed on <u>26 February</u>		signated to by the Everniner
	On Fapers The specification is objected to by th	o Evaminor	
	Claim(s) are subject to restrict on Papers	ction and/or election requirement.	
	Claim(s) is/are objected to.		
	Claim(s) <u>1,2,6,7,13,15,16,21,23 and</u>	<u>/ 24</u> is/are rejected.	
·	Claim(s) is/are allowed.		
	4a) Of the above claim(s) <u>3-5,8-12,1</u>	4,17-20,22 and 25 is/are withdrawn	from consideration.
•	Claim(s) $\underline{1-25}$ is/are pending in the	• •	
<u> </u>	on of Claims		
•	closed in accordance with the prac	tice under <i>Ex parte Quayle</i> , 1935 C.	.D. 11, 453 O.G. 213.
3)		·—	atters, prosecution as to the merits is
2a)□		2b)⊠ This action is non-final.	
1) 🖂	Responsive to communication(s) fi	led on 18 June 2002	
THE I - External after - If the - If NO - Failu - Any r	MAILING DATE OF THIS COMMUN asions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comperiod for reply specified above is less than thirty (3 period for reply is specified above, the maximum stree to reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	ICATION. of 37 CFR 1.136(a). In no event, however, may a nunication. io) days, a reply within the statutory minimum of thi atutory period will apply and will expire SIX (6) MOI will, by statute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Period fo A SH	ORTENED STATUTORY PERIOD F	OR REPLY IS SET TO EXPIRE 3 M	MONTH(S) FROM
	The MAILING DATE of this commun	ication appears on the cover sheet w	vith the correspondence address
	•	William J. Klimowicz	2652
Office Action Summary		Examiner	Art Unit
		10/083,054	SCHULZ ET AL.
		1	■ 1

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DETAILED ACTION

Election/Restrictions

Claims 3-5, 8-12, 14, 17-20, 22 and 25 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in Paper No. 5 (filed June 18, 2002).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 6, 7, 13, 15, 16, 21, 23 and 24 are rejected under 35 U.S.C. 102(b) as being anticipated by Oberg (US 4,991,045).

As per claim 1, Oberg (US 4,991,045) discloses a data storage device for storing and accessing data in tracks on a medium (e.g., see COL. 1, lines 5-15), the storage device having a suspension (100) comprising: a metal material (128) defining at least a portion of the suspension (100); an adhesive (ultrasonically/heat staked plastic which is plastic that is melted to form a bond; e.g., see, inter alia, COL. 5, lines 4-8) bonded to a portion of the metal material (128); and a composite material (106) having a higher stiffness to weight ratio than the metal material (due to its composition, which includes a liquid crystal polymer - see COL. 4, lines 23-47) and being

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bonded to the adhesive (ultrasonically/heat staked plastic which is plastic that is melted to form a bond; e.g., see, *inter alia*, COL. 5, lines 4-8, and wherein that bond is integrated with the composite material (106)).

As per claim 2, the metal material defines a load beam (128) of the suspension (100) and the adhesive (ultrasonically/heat staked plastic which is plastic that is melted to form a bond; e.g., see, *inter alia*, COL. 5, lines 4-8) and the composite material (106) are positioned on the load beam.

As per claims 6 and 16, the composite material (106) comprises a high performance plastic and as per claim 7, the composite material (106) comprises a liquid crystal polymer (see COL. 4, lines 23-47).

Additionally, as per claim 13, the suspension body is formed from a layer of metal (128); and a composite stiffener (106) formed from a composite material (see COL. 4, lines 23-47) and bonded to a portion of the suspension body (ultrasonically/heat staked plastic which is plastic that is melted to form a bond; *e.g.*, see, *inter alia*, COL. 5, lines 4-8, and wherein that bond is integrated with the composite material (106)).

As per claim 15, the composite stiffener is bonded to a load beam (128) of the suspension body (100).

Additionally, as per claim 21, the suspension body (128) formed from a layer of metal (128); and stiffener means (106) formed of a composite (see COL. 4, lines 23-47) material for increasing the stiffness of selected areas of the suspension.

As per claim 23, the stiffener means (106) comprises a composite material bonded to a load beam of the suspension body ((ultrasonically/heat staked plastic which is plastic that is

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melted to form a bond; e.g., see, inter alia, COL. 5, lines 4-8, and wherein that bond is integrated with the composite material (106)).

As per claim 24, the stiffener means comprises a composite material having a higher stiffness to mass ratio than the layer of metal (due to its composition, which includes a liquid crystal polymer - see COL. 4, lines 23-47).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William J. Klimowicz whose telephone number is (703) 305-3452. The examiner can normally be reached on Monday-Thursday (6:30AM-5:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa T. Nguyen can be reached on (703) 305-9687. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

William J. Klimowicz Primary Examiner Art Unit 2652

WJK July 3, 2002